



NTSB National Transportation Safety Board

Federal Most Wanted Transportation Safety Improvements

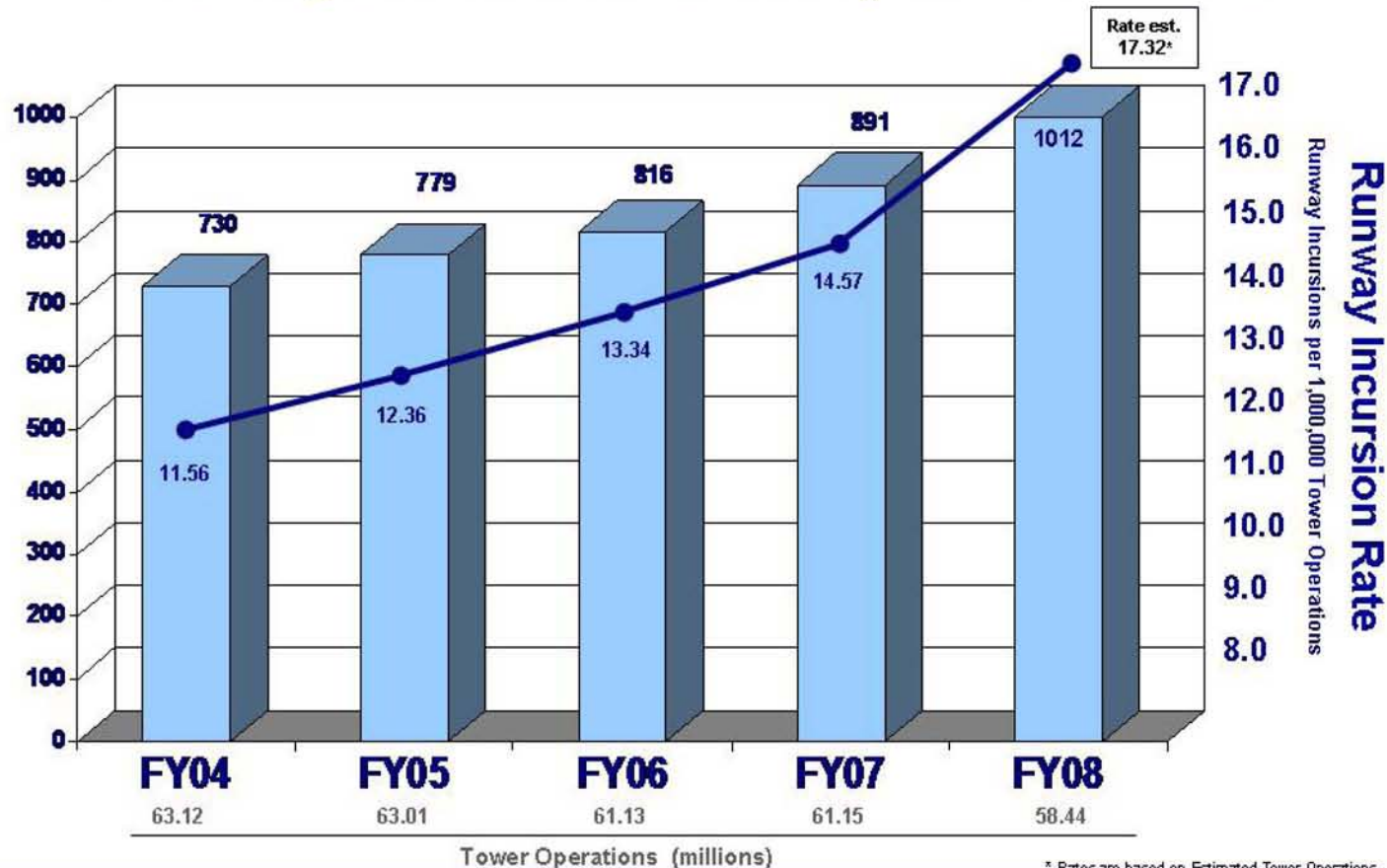
Improve Runway Safety

Runway Incursion

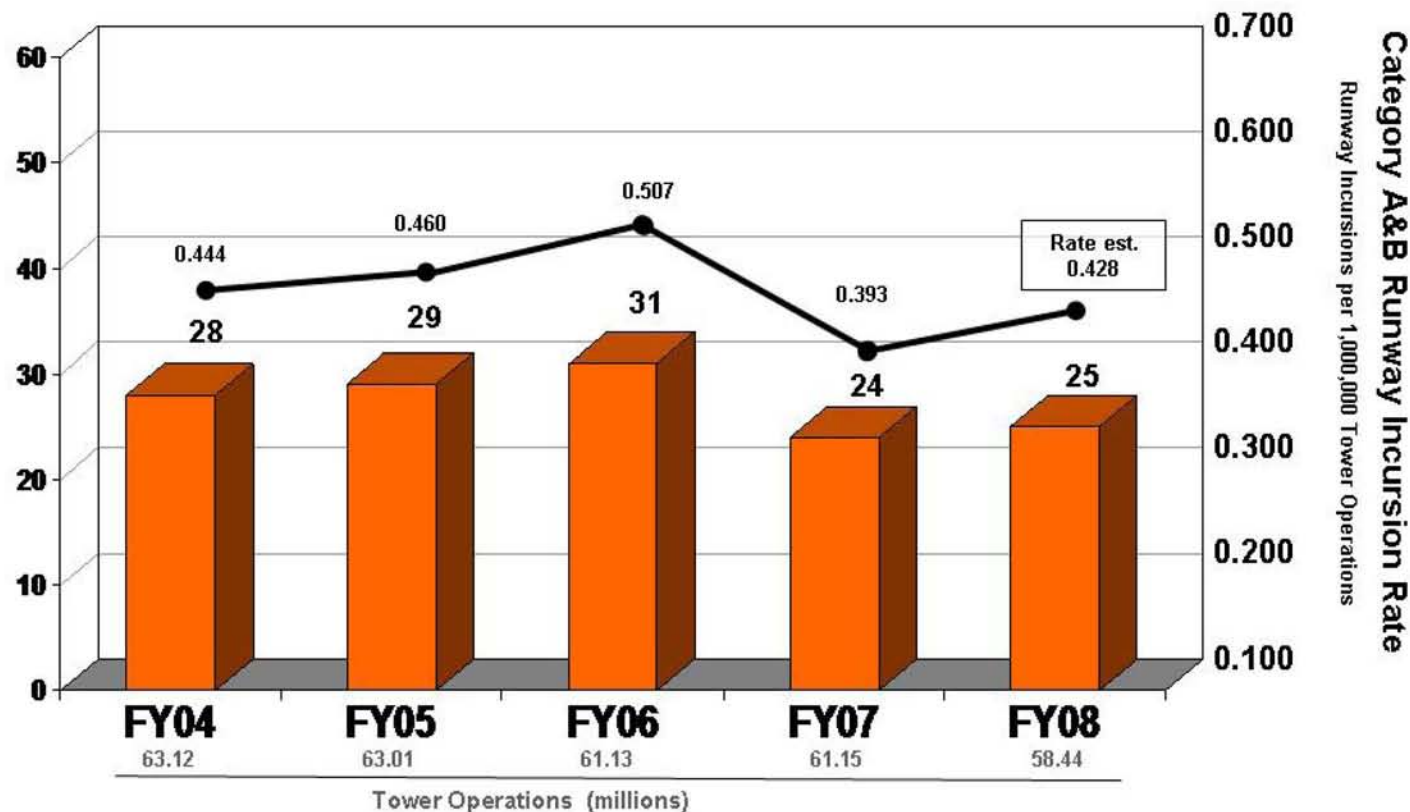
Any occurrence at an aerodrome involving the incorrect presence of an aircraft, vehicle or person on the protected area of a surface designated for the landing and take-off of aircraft.



All Categories of Runway Incursions



Category A and B Runway Incursions



* Rates are based on Estimated Tower Operations

Safety Improvements Wanted

Runway Incursions

Require a ground movement safety system that will prevent incursions and provide a direct warning to flight crews. **A-00-66**

Require all runway crossings be authorized only by a specific clearance. **A-00-67**

Require runway crossing clearances be issued only after a previous runway has been crossed. **A-00-68**



Safety Improvements Wanted

Runway Incursions

Require that all 14 *Code of Federal Regulations* Part 91K, 121, and 135 operators install on their aircraft cockpit moving map displays or an automatic system that alerts pilots when a takeoff is attempted on a taxiway or a runway other than the one intended. **A-07-45**



Non-Fatal Runway Incursion Accident

North Central State Airport
Pawtucket, RI

Piper PA-30



Beech A36



Non-Fatal Runway Incursion Accident

**Reading Regional Airport / Carl A. Spaatz Field
Reading, PA**

Tractor



Cessna 550



NTSB **MOST WANTED**

Transportation Safety Improvements

Category B Incursion

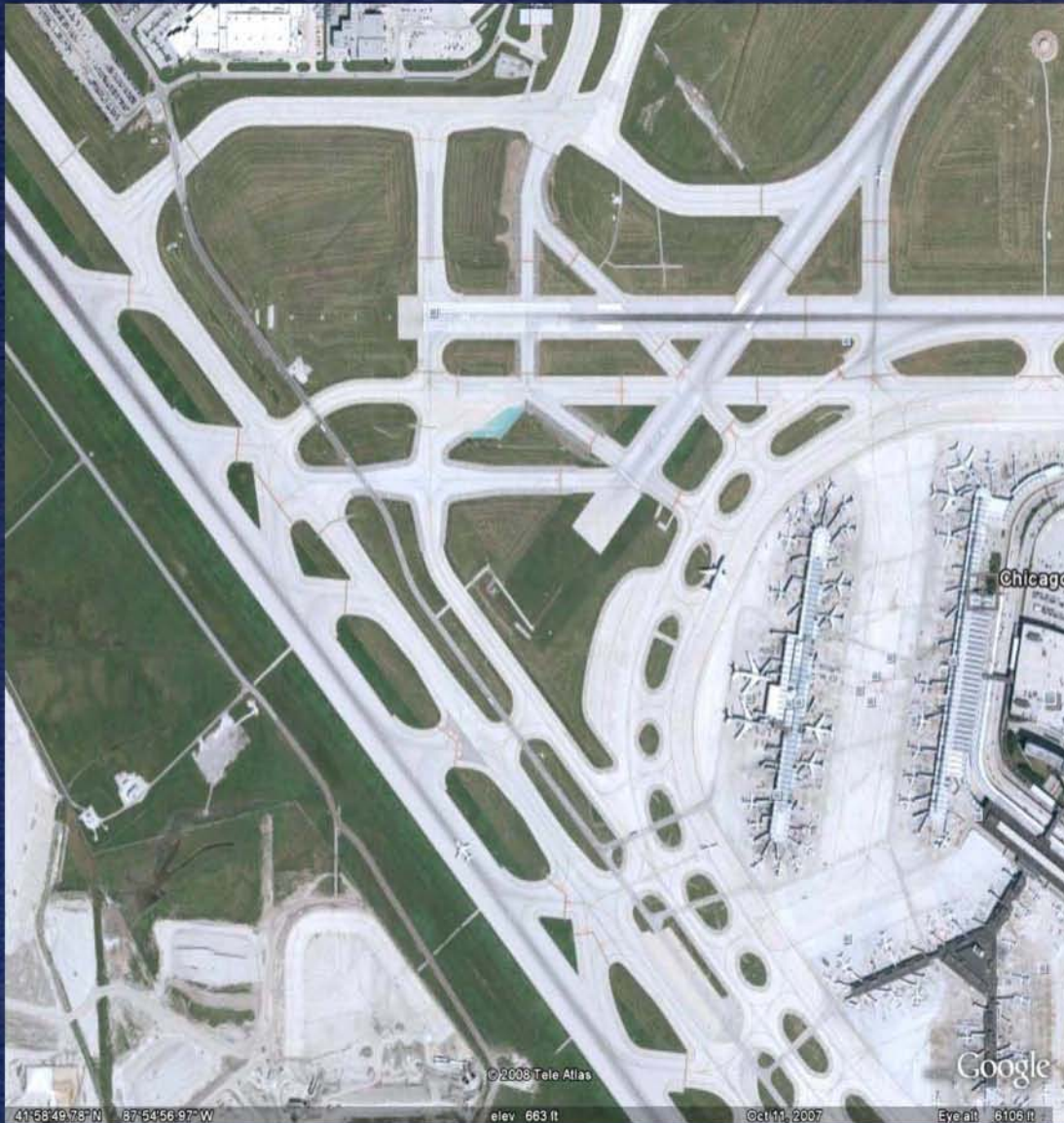
Chicago, IL
July 21, 2008
12:47 CDT



NTSB **MOST WANTED**

Transportation Safety Improvements

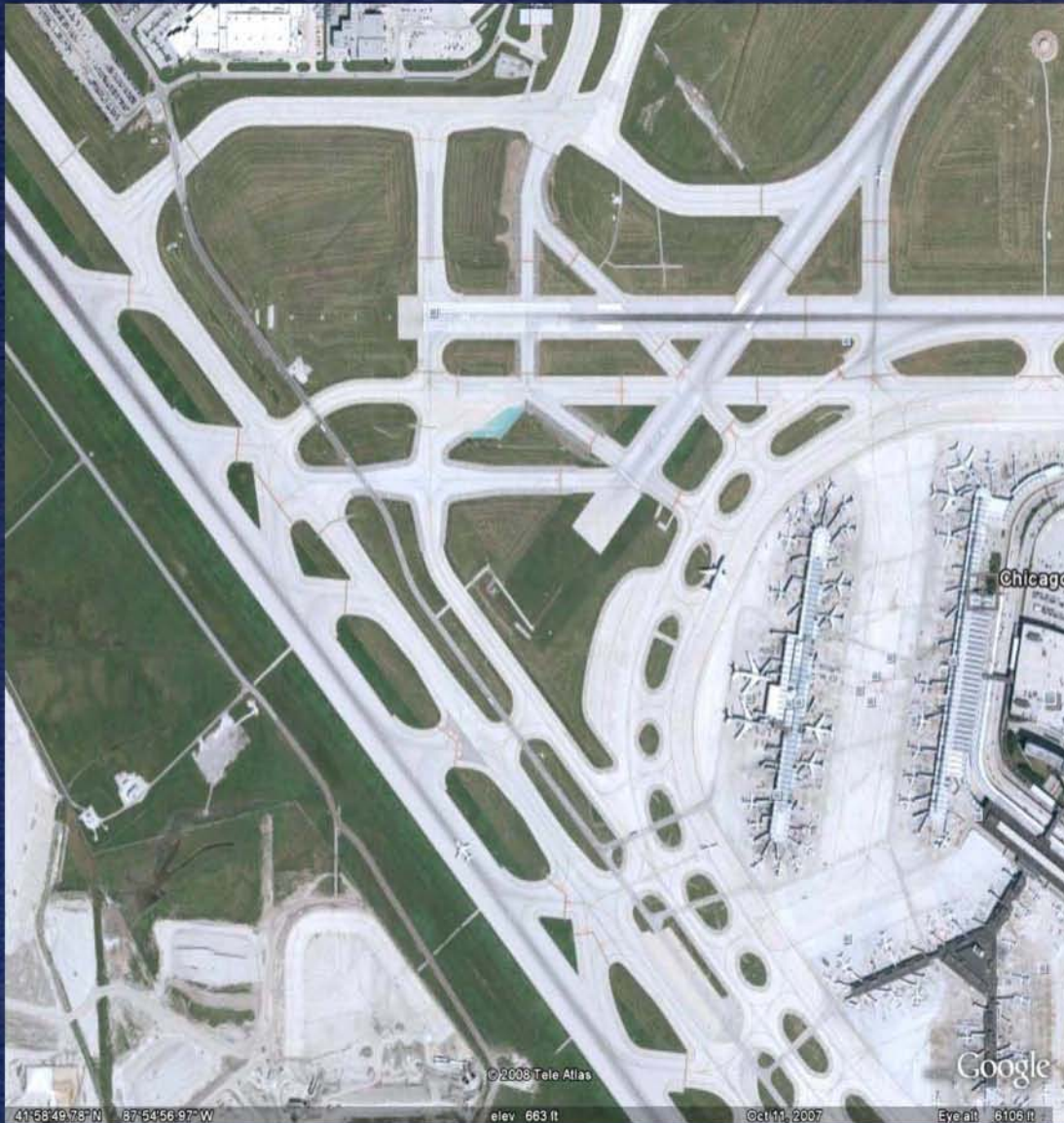
Chicago, IL
July 21, 2008
12:47 CDT



NTSB **MOST WANTED**

Transportation Safety Improvements

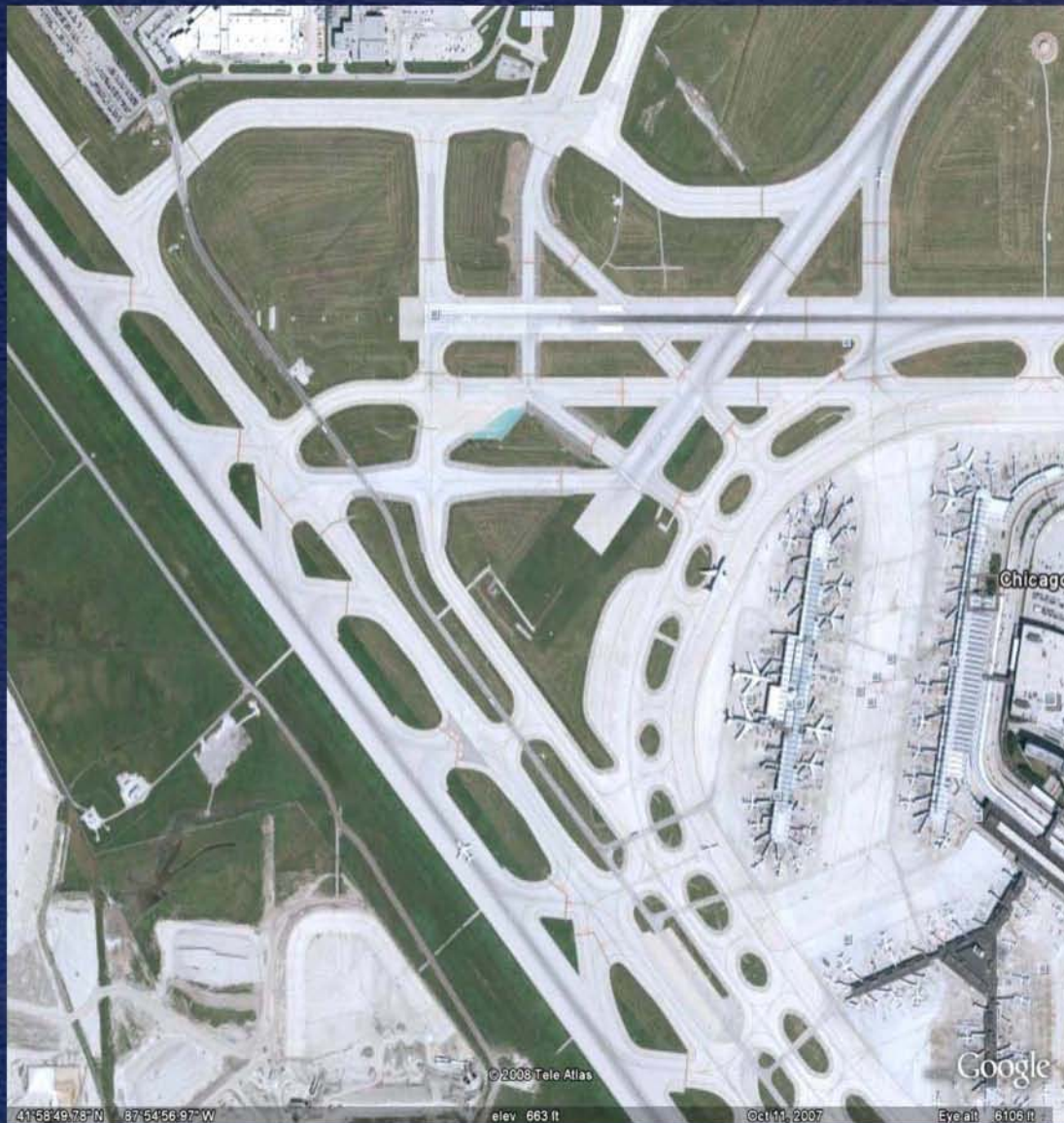
Chicago, IL
July 21, 2008
12:47 CDT



NTSB **MOST WANTED**

Transportation Safety Improvements

Chicago, IL
July 21, 2008
12:47 CDT



NTSB **MOST WANTED**

Transportation Safety Improvements



325 feet



NTSB **MOST WANTED**

Transportation Safety Improvements

Final Approach Runway Occupancy Signal



Runway Status Lights



Enhanced Airport Lighting Program



NTSB **MOST WANTED**

Transportation Safety Improvements



Automatic
Dependant
Surveillance -
Broadcast



NTSB **MOST WANTED**

Transportation Safety Improvements



Southwest Airlines
Chicago, IL
December 8, 2005



Safety Improvements Wanted

Require landing distance assessment with an adequate safety margin for every landing. **A-07-57**



Improve Runway Safety

Proposed Safety Board Action

- Keep issue area on Most Wanted List
- Add recommendation A-07-45
- Retain red classification: Unacceptable response

Timeliness Classification

RED

